

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P1061581

Luminaire Tested: S125RDR-S1270D940-X4F0-XX-UDD-SVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061581
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-47)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDR-S1270D940-X4F0-XX-UDD-SVL-B
Description: DEFINE 5 BLACK REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

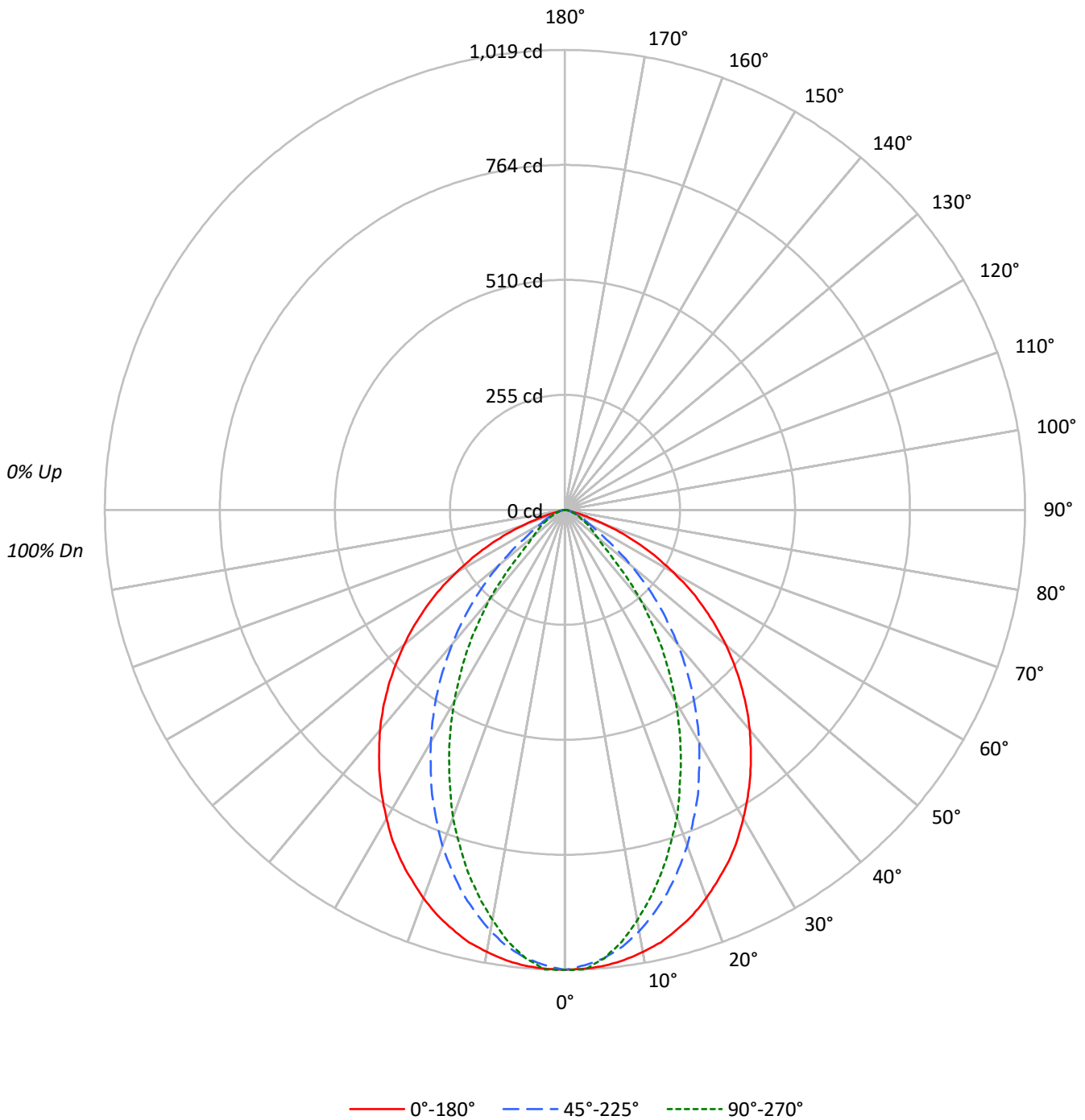
Lumens per Lamp: N/A
Luminaire Lumens: 1473.9 lumens
Efficiency: N/A
Efficacy: 35.3 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 0.85 / 1.01
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 41.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20	
RC	80					70					50					30					10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			100	
1	112	108	105	102	109	106	103	101	102	100	97	98	96	95	95	93	92	90			90	
2	104	98	93	88	102	96	91	87	93	89	85	90	86	83	87	84	82	80			80	
3	97	89	82	77	95	87	81	77	84	79	75	82	78	74	79	76	73	71			71	
4	90	81	74	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63			63	
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57			57	
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	53	52			52	
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47			47	
8	69	58	50	45	68	57	50	45	56	50	45	55	49	45	54	48	45	43			43	
9	65	54	47	42	64	53	46	42	52	46	41	51	45	41	50	45	41	39			39	
10	62	50	43	38	61	50	43	38	49	43	38	48	42	38	47	42	38	36			36	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7017	7017	7017
5°	7008	6891	6891
10°	6953	6627	6455
15°	6858	6258	5917
20°	6708	5807	5314
25°	6523	5293	4614
30°	6280	4726	3892
35°	6019	4136	3156
40°	5726	3492	2340
45°	5384	2799	1412
50°	4980	2053	970
55°	4492	1259	808
60°	3816	857	642
65°	3017	653	507
70°	1902	469	417
75°	620	343	343
80°	206	258	309
85°	103	205	205

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5384 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.3	6.4
10°-20°	248.9	16.9
20°-30°	327.4	22.2
30°-40°	321.7	21.8
40°-50°	243.4	16.5
50°-60°	147.6	10.0
60°-70°	69.7	4.7
70°-80°	18.2	1.2
80°-90°	2.7	0.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	670.6	45.5
0°-40°	992.3	67.3
0°-60°	1383.3	93.9
0°-90°	1473.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1473.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1019	1019	1019	1019	1019	
5°	1014	1011	997	998	997	96
15°	962	936	878	844	830	271
25°	859	794	697	632	607	395
35°	716	620	492	405	376	447
45°	553	435	288	183	145	426
55°	374	256	105	71	67	333
65°	185	94	40	34	31	183
75°	23	16	13	13	13	36
85°	1	1	3	3	3	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1019.1	1019.1	1019.1	1019.1	1019.1
2.5°	1017.8	1017.8	1010.1	1019.1	1019.1
5°	1013.9	1011.4	997.1	998.4	997.1
7.5°	1006.2	1001.0	976.4	969.9	964.7
10°	994.5	984.2	947.9	932.4	923.3
12.5°	981.6	963.4	914.2	892.2	878.0
15°	962.1	936.2	878.0	844.3	830.1
17.5°	941.4	903.9	835.2	795.1	777.0
20°	915.5	871.5	792.5	743.3	725.2
22.5°	887.0	835.2	743.3	688.9	664.3
25°	858.6	793.8	696.7	631.9	607.3
27.5°	826.2	752.4	643.6	576.3	549.1
30°	789.9	710.9	594.4	524.5	489.5
32.5°	753.7	668.2	542.6	466.2	431.2
35°	716.1	620.3	492.1	405.3	375.5
37.5°	676.0	575.0	440.3	349.6	314.7
40°	637.1	529.6	388.5	292.7	260.3
42.5°	595.7	484.3	336.7	237.0	200.7
45°	552.9	435.1	287.5	182.6	145.0
47.5°	508.9	391.1	238.3	134.7	108.8
50°	464.9	344.5	191.7	99.7	90.6
52.5°	419.6	299.1	145.0	82.9	79.0
55°	374.2	256.4	104.9	71.2	67.3
57.5°	327.6	209.8	79.0	60.9	57.0
60°	277.1	168.3	62.2	50.5	46.6
62.5°	230.5	132.1	50.5	41.4	38.8
65°	185.2	94.5	40.1	33.7	31.1
67.5°	138.6	63.5	31.1	25.9	25.9
70°	94.5	41.4	23.3	20.7	20.7
72.5°	57.0	24.6	16.8	16.8	16.8
75°	23.3	15.5	12.9	12.9	12.9
77.5°	7.8	9.1	9.1	10.4	10.4
80°	5.2	5.2	6.5	7.8	7.8
82.5°	2.6	3.9	3.9	5.2	5.2
85°	1.3	1.3	2.6	2.6	2.6
87.5°	0.0	0.0	0.0	1.3	1.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)